



3737


PATENT
Attorney Docket No.: MDS-022C1
(6219/6)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Nordstrom *et al.*
SERIAL NO.: 10/071,932 GROUP NO.: 3737
FILING DATE: February 8, 2003 EXAMINER: Not yet assigned
TITLE: A Spectroscopic System Employing A Plurality of Data Types

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any documents referred to as enclosed herein, are being deposited with the United States Postal Service as first class mail, postage prepaid, in a box addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 11th day of July, 2003.


Karina L. Branzetti

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith in **BOX 1 OF 2** are:

1. Transmittal Form (1 pg.);
2. Information Disclosure Statement (3 pgs.);
3. Form PTO-1449 (16 pgs.);
4. Cited References A1-A192; and
5. Return Receipt Postcard.

Note that Cited References B1-B26 and C1-C107 are mailed in **BOX 2 OF 2** of this submission.

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Attorney Docket No.: MDS-022C1
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Karina L. Branzetti

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith in **BOX 2 OF 2** are:

1. Cited References B1-26 and C1-C107; and
2. Return Receipt Postcard.



TRANSMITTAL FORM

Application Serial Number	10/071,932
Filing Date	February 8, 2002
First Named Inventor	Nordstrom
Group Art Unit	3737
Examiner Name	Not yet assigned
Attorney Docket No.	MDS-022C1
Patent No.	Not applicable
Issue Date	Not applicable

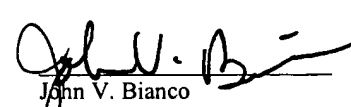
ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form <input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____] <input type="checkbox"/> Petition for Extension of Time <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations (A1-A192, B1-B26 and C1-C107) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application <input type="checkbox"/> Formal Drawing(s) <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> CD(s) for large table or computer program <input type="checkbox"/> Amendment After Allowance <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <input type="checkbox"/> Appeal Brief (in triplicate) <input type="checkbox"/> Status Inquiry <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 <input type="checkbox"/> Additional Enclosure(s) (please identify below)
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CORRESPONDENCE ADDRESS

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Testa, Hurwitz & Thibault, LLP
High Street Tower
125 High Street
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Tel. No.: (617) 248-7000
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SIGNATURE BLOCK

Respectfully submitted,

John V. Bianco
Attorney for Applicants
Testa, Hurwitz & Thibault, LLP
High Street Tower
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Boston, MA 02110
Date: July 11, 2003
Reg. No.: 36,748
Tel. No.: (617) 248-7870
Fax No.: (617) 248-7100



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Attorney Docket No.: MDS-022C1
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TITLE: A Spectroscopic System Employing a Plurality of Data Types

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**

- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

In addition, Applicants wish to call to the Examiner's attention Office Actions issued in the following commonly-owned, co-pending patent applications:

- 1) U.S. Serial No. 09/841,325, Attorney Docket No. MDS-009CN, filed on 4/24/01, by Modell et al.;
- 2) U.S. Serial No. 09/591,706, Attorney Docket No. MDS-012, filed on 6/9/00, by Nordstrom et al.;
- 3) U.S. Serial No. 09/738,614, Attorney Docket No. MDS-013A, filed on 12/15/00, by Kaufman et al.;
- 4) U.S. Serial No. 10/068,133, Attorney Docket No. MDS-013AC2, filed on 2/5/02, by Kaufman et al.;
- 5) U.S. Serial No. 09/738,147, Attorney Docket No. MDS-013B, filed on 12/15/00, by Kaufman et al.;
- 6) U.S. Serial No. 10/411,777, Attorney Docket No. MDS-013BC1, filed on 4/11/03, by Kaufman et al.;
- 7) U.S. Serial No. 10/178,772, Attorney Docket No. MDS-014CN, filed on 6/24/02, by Modell et al.;
- 8) U.S. Serial No. 10/122,429, Attorney Docket No. MDS-015CN, filed on 4/12/02, by Nordstrom et al.;
- 9) U.S. Serial No. 09/481,762, Attorney Docket No. MDS-016, filed on 1/11/00, by Modell et al.;
- 10) U.S. Serial No. 09/738,612, Attorney Docket No. MDS-020, filed on 12/15/00, by Costa et al.;
- 11) U.S. Serial No. 10/192,820, Attorney Docket No. MDS-028, filed on 7/10/02, by Schomacker et al.;
- 12) U.S. Serial No. 10/099,881, Attorney Docket No. MDS-030, filed on 3/15/02, by Kaufman et al.;
- 13) U.S. Serial No. 10/273,511, Attorney Docket No. MDS-031, filed on 10/18/02, by Clune et al.;
- 14) U.S. Serial No. 10/192,836, Attorney Docket No. MDS-032, filed on 7/10/02, by Zelenchuk;
- 15) U.S. Serial No. 10/243,535, Attorney Docket No. MDS-033, filed on 9/13/02, by Schomacker et al.;
- 16) U.S. Serial No. 10/295,794, Attorney Docket No. MDS-034, filed on 11/15/02, by Schomacker et al.;
- 17) U.S. Serial No. 10/418,922, Attorney Docket No. MDS-035, filed on 4/18/03, by Flewelling et al.;
- 18) U.S. Serial No. 10/418,902, Attorney Docket No. MDS-035A, filed on 4/18/03, by Jiang et al.;
- 19) U.S. Serial No. 10/418,974, Attorney Docket No. MDS-035B, filed on 4/18/03, by Jiang;
- 20) U.S. Serial No. 10/418,668, Attorney Docket No. MDS-035D, filed on 4/18/03, by Costa et al.;
- 21) U.S. Serial No. 10/418,975, Attorney Docket No. MDS-035E, filed on 4/18/03, by Jiang et al.;
- 22) U.S. Serial No. 10/418,415, Attorney Docket No. MDS-035F, filed on 4/18/03, by Schomacker et al.;
- 23) U.S. Serial No. 10/419,181, Attorney Docket No. MDS-035G, filed on 4/18/03, by Jiang et al.; and
- 24) U.S. Serial No. 10/418,973, Attorney Docket No. MDS-035H, filed on 4/18/03, by Schomacker et al.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT


As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Date: July 11, 2003
Reg. No.: 36,748

Tel. No.: (617) 248-7870
Fax No.: (617) 248-7100

Respectfully submitted,



John V. Bianco
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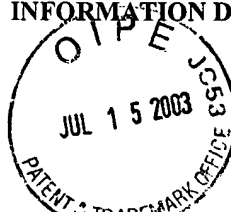
FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MDS-022C1 APPLICANTS: Nordstrom <i>et al.</i> SERIAL NO.: 10/071,932 FILING DATE: February 8, 2002 GROUP: 3737			
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O I P E
 JUL 15 2003
 PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS							
EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	A1	2002/0007123 A1	1/17/02	Balas et al	600	476	12/15/00
	A2	3,013,467	12/19/61	Minsky	88	14	
	A3	3,632,865	1/4/72	Haskell et al.	178	6	12/23/69
	A4	3,809,072	5/7/74	Ersek et al.	128	23	10/7/71
	A5	3,890,462	06/17/75	Limb et al	178	6.8	04/17/74
	A6	3,963,019	06/15/75	Quandt et al	128	2	11/25/74
	A7	4,017,192	4/12/77	Rosenthal et al	356	201	2/6/75
	A8	4,071,020	01/31/78	Puglise et al	128	2	06/3/76
	A9	4,198,571	4/15/80	Sheppard	250	571	4/24/78
	A10	4,218,703	8/19/80	Netravali et al	358	136	03/16/79
	A11	4,254,421	3/3/81	Kreutel, Jr.	343	754	12/5/79
	A12	4,273,110	06/16/81	Groux	128	6	07/11/79
	A13	4,357,075	11/2/82	Hunter	350	294	6/26/80
	A14	4,397,557	8/9/83	Herwig et al.	356	342	12/10/80
	A15	4,549,229	10/22/85	Nakano et al	360	8	1/31/83
	A16	4,662,360	5/5/87	O'Hara et al.	128	9	5/8/85
	A17	4,733,063	3/22/88	Kimura et al.	250	201	12/15/86
	A18	4,741,326	5/3/88	Sidall et al.	128	4	10/1/86
	A19	4,753,530	6/28/88	Knight et al.	356	73	8/16/85
	A20	4,768,513	9/6/88	Suzuki	128	634	3/30/87
	A21	4,800,571	01/24/89	Konishi	375	10	01/11/88
	A22	4,844,617	7/4/89	Kelderman et al.	356	372	1/20/88
	A23	4,845,352	7/4/89	Benschop	250	201	12/8/87
	A24	4,852,955	8/1/89	Doyle et al.	350	1.2	9/16/86
	A25	4,877,033	10/31/89	Seitz, jr.	128	660.05	5/4/88
	A26	4,878,485	11/07/89	Adair	128	6	2/3/89

EXAMINER	DATE CONSIDERED
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U.S. PATENT DOCUMENTS							
EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	A27	4,891,829	1/2/90	Deckman et al.	378	4	11/19/86
	A28	4,930,516	6/5/90	Alfano et al.	128	665	4/25/88
	A29	4,945,478	7/31/90	Merickel et al.	364	413.22	11/6/87
	A30	4,965,441	10/23/90	Picard	250	201.3	2/26/89
	A31	4,972,258	11/20/90	Wolf et al.	358	93	7/31/89
	A32	4,974,580	12/04/90	Anapliotis	128	4	6/23/89
	A33	4,979,498	12/25/90	Oneda et al.	128	6	10/30/89
	A34	4,997,242	3/5/91	Amos	350	6.91	7/11/90
	A35	5,003,979	4/2/91	Merickel et al.	364	413.22	2/21/89
	A36	5,011,243	4/30/91	Doyle et al.	350	1.2	9/16/86
	A37	5,022,757	6/11/91	Modell	356	318	1/23/89
	A38	5,028,802	7/2/91	Webb et al.	250	571	1/11/90
	A39	5,032,720	7/16/91	White	250	236	8/1/90
	A40	5,034,613	7/23/91	Denk et al.	250	458.1	11/14/89
	A41	5,036,853	8/6/91	Jeffcoat et al.	128	634	8/24/89
	A42	5,042,494	8/27/91	Alfano	128	665	12/4/89
	A43	5,048,946	09/17/91	Sklar et al	351	206	05/15/90
	A44	5,054,926	10/8/91	Dabbs et al.	356	345	3/24/88
	A45	5,065,008	11/12/91	Hakamata et al.	250	216	10/17/90
	A46	5,071,246	12/10/91	Blaha et al	351	221	10/25/90
	A47	5,074,306	12/24/91	Green et al.	128	664	2/22/90
	A48	5,083,220	1/21/92	Hill	359	234	3/22/90
	A49	5,091,652	2/25/92	Mathies et al.	250	458.1	6/1/90
	A50	5,120,953	6/9/92	Harris	250	227.20	7/13/89
	A51	5,122,653	6/16/92	Ohki	250	216	8/9/90
	A52	5,132,526	7/21/92	Iwasaki	250	201.3	9/9/91
EXAMINER				DATE CONSIDERED			

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MDS-022C1 APPLICANTS: Nordstrom <i>et al.</i> SERIAL NO.: 10/071,932 FILING DATE: February 8, 2002 GROUP: 3737			
 U.S. PATENT DOCUMENTS							
EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	A53	5,139,025	8/18/92	Lewis et al.	128	665	3/29/89
	A54	5,154,166	10/13/92	Chikama	128	4	1/31/91
	A55	5,159,919	11/03/92	Chikama	128	4	1/31/91
	A56	5,161,053	11/3/92	Dabbs	359	384	8/1/89
	A57	5,162,641	11/10/92	Fountain	250	201.2	2/19/91
	A58	5,162,941	11/10/92	Favro et al.	359	386	7/23/91
	A59	5,168,157	12/1/92	Kimura	250	234	11/20/91
	A60	5,192,980	3/9/93	Dixon et al.	356	326	6/26/91
	A61	Re. 34,214	4/6/93	Carlsson et al.	358	93	12/21/88
	A62	5,201,318	4/13/93	Rava et al.	128	665	10/4/91
	A63	5,201,908	4/13/93	Jones	128	4	6/10/91
	A64	5,203,328	4/20/93	Samuels et al	128	633	07/17/91
	A65	5,225,671	7/6/93	Fukuyama	250	216	4/3/92
	A66	5,235,457	8/10/93	Lichtman et al.	359	368	11/30/90
	A67	5,237,984	8/24/93	Williams, III et al.	128	4	7/24/91
	A68	5,239,178	8/24/93	Dermdinger et al.	250	234	11/8/91
	A69	5,248,876	9/28/93	Kerstens et al.	250	561	4/21/92
	A70	5,253,071	10/12/93	MacKay	358	222	12/20/91
	A71	5,257,617	11/2/93	Takahashi	128	4	12/20/90
	A72	5,260,569	11/9/93	Kimura	250	234	06/29/92
	A73	5,260,578	11/9/93	Bliton et al.	250	461.1	4/30/92
	A74	5,261,410	11/16/93	Alfano et al.	128	664	02/7/91
	A75	5,262,646	11/16/93	Booker et al.	250	341	7/26/91
	A76	5,274,240	12/28/93	Mathies et al.	250	458.1	2/24/92
	A77	5,284,149	2/8/94	Dhadwal et al.	128	665	1/23/92
	A78	5,286,964	2/15/94	Fountain	250	201.2	9/15/92
EXAMINER				DATE CONSIDERED			

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MDS-022C1 APPLICANTS: Nordstrom <i>et al.</i> SERIAL NO.: 10/071,932 FILING DATE: February 8, 2002 GROUP: 3737			
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OFFICE
 JUL 15 2003
 PATENT & TRADEMARK

U.S. PATENT DOCUMENTS							
EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	A79	5,289,274	2/22/94	Kondo	348	208	1/31/92
	A80	5,294,799	3/15/94	Aslund et al.	250	458.1	2/1/93
	A81	5,296,700	3/22/94	Kumagai	250	216	9/9/92
	A82	5,303,026	4/12/94	Strobl et al.	356	318	2/12/92
	A83	5,306,902	4/26/94	Goodman	250	201.3	9/1/92
	A84	5,313,567	5/17/94	Civanlar et al	395	124	6/13/91
	A85	5,319,200	6/7/94	Rosenthal et al.	250	341	5/29/92
	A86	5,321,501	6/14/94	Swanson et al.	356	345	4/29/92
	A87	5,324,979	6/28/94	Rosenthal	250	504R	6/28/94
	A88	5,325,846	7/5/94	Szabo	128	4	7/27/92
	A89	5,329,352	7/12/94	Jacobsen	356	301	4/2/92
	A90	5,337,734	8/16/94	Saab	128	4	10/29/92
	A91	5,343,038	8/30/94	Nishiwaki et al.	250	234	12/10/92
	A92	5,345,306	9/6/94	Ichimura et al.	356	346	5/22/91
	A93	5,345,941	09/13/94	Rava et al	128	665	3/1/93
	A94	5,349,961	09/27/94	Stoddart et al	128	665	09/27/94
	A95	5,398,685	3/21/95	Wilk et al.	128	653.1	6/26/92
	A96	5,402,768	4/4/95	Adair	128	4	6/22/93
	A97	5,406,939	4/18/95	Bala	128	4	2/14/94
	A98	5,413,092	5/9/95	Williams, III et al.	128	4	7/29/93
	A99	5,413,108	5/9/95	Alfano	128	665	4/21/93
	A100	5,415,157	5/16/95	Welcome	128	4	2/5/93
	A101	5,418,797	5/23/95	Bashkansky et al.	372	3	1/15/93
	A102	5,419,311	5/30/95	Yabe et al.	128	4	3/9/93
	A103	5,419,323	5/30/95	Kittrell et al	128	653	11/17/89
	A104	5,421,337	6/6/95	Richards-Kortum et al.	128	665	3/29/94

EXAMINER	DATE CONSIDERED
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FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT



ATTORNEY DOCKET NO.: MDS-022C1

APPLICANTS: Nordstrom *et al.*

SERIAL NO.: 10/071,932

FILING DATE: February 8, 2002

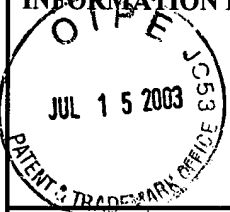
GROUP: 3737

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A105	5,421,339	6/6/95	Ramanujam et al.	128	665	5/12/93
	A106	5,424,543	06/13/95	Dombrowski et al	250	330	04/19/93
	A107	5,450,857	09/19/95	Garfield et al.	128	778	05/19/94
	A108	5,451,931	9/19/95	Miller et al	340	630	9/14/93
	A109	5,458,132	10/17/95	Yabe et al.	128	4	4/27/93
	A110	5,458,133	10/17/95	Yabe et al.	600	121	10/17/95
	A111	5,467,767	11/21/95	Alfano et al	128	665	08/27/93
	A112	5,477,382	12/19/95	Pernick	359	559	8/5/94
	A113	5,480,775	1/2/96	Ito et al.	435	7.2	5/3/93
	A114	5,493,444	2/20/96	Khoury et al.	359	559	4/28/94
	A115	5,507,295	4/16/96	Skidmore	600	121	4/16/96
	A116	5,516,010	5/14/96	O'Hara et al.	600	122	9/1/94
	A117	5,519,545	5/21/96	Kawahara	360	46	11/29/94
	A118	5,529,235	6/25/96	Bolarski et al.	227	175.1	4/28/94
	A119	5,536,236	7/16/96	Yabe et al.	600	125	3/26/93
	A120	5,545,121	8/13/96	Yabe et al.	600	121	3/4/93
	A121	5,551,945	9/3/96	Yabe et al.	600	122	4/28/93
	A122	5,556,367	9/17/96	Yabe et al.	600	124	3/29/93
	A123	5,562,100	10/8/96	Kittrell et al	128	665	05/25/94
	A124	5,579,773	12/3/96	Vo-Dinh et al	128	665	09/30/94
	A125	5,582,168	12/10/96	Samuels et al	128	633	01/22/93
	A126	5,587,832	12/24/96	Krause	359	385	10/20/93
	A127	5,596,992	1/28/97	Haaland et al.	128	664	6/30/93
	A128	5,599,717	2/4/97	Vo-Dinh	436	63	9/2/94
	A129	5,609,560	3/11/97	Ichikawa et al.	600	101	4/10/95
	A130	5,612,540	3/18/97	Richards-Korum et al	250	461.2	3/31/95

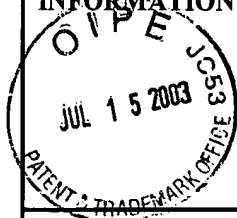
EXAMINER

DATE CONSIDERED

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MDS-022C1 APPLICANTS: Nordstrom et al.. SERIAL NO.: 10/071,932 FILING DATE: February 8, 2002 GROUP: 3737			
 U.S. PATENT DOCUMENTS							
EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	A131	5,623,932	4/29/97	Ramanujam et al.	128	665	6/6/95
	A132	5,647,368	7/15/97	Zeng et al	128	665	02/28/96
	A133	5,662,588	9/2/97	Lida	600	121	4/25/95
	A134	5,685,822	11/11/97	Harhen	600	125	8/8/96
	A135	5,693,043	12/2/97	Kittrell et al.	606	15	4/3/90
	A136	5,695,448	12/9/97	Kimura et al.	600	121	8/25/95
	A137	5,697,373	12/16/97	Richards-Kortum et al	128	664	03/14/95
	A138	5,699,795	12/23/97	Richards-Kortum	128	634	12/23/97
	A139	5,704,892	1/6/98	Adair	600	121	3/15/96
	A140	5,707,343	1/13/98	O'Hara et al.	600	121	2/28/96
	A141	5,713,364	2/3/98	DeBaryshe et al.	128	664	8/1/95
	A142	5,717,209	2/10/98	Bigman et al	250	339.12	4/29/96
	A143	5,730,701	3/24/98	Furukawa et al.	600	127	2/14/96
	A144	5,733,244	3/31/98	Yasui et al.	600	127	3/6/96
	A145	5,735,276	04/7/98	Lemelson et al	128	653	03/21/95
	A146	5,746,695	5/5/98	Yasui et al.	600	127	9/12/96
	A147	5,768,333	6/16/98	Abdel-Mottaleb	378	37	12/2/96
	A148	5,769,792	6/23/98	Palcic et al.	600	477	4/15/96
	A149	5,773,835	6/30/98	Sinofsky et al	250	462.1	06/7/96
	A150	5,791,346	08/11/98	Craine et al.	128	653	8/22/96
	A151	5,795,632	8/18/98	Buchalter	428	35.2	2/6/96
	A152	5,800,350	9/1/98	Coppleson et al.	600	372	2/14/97
	A153	5,807,248	9/15/98	Mills	600	322	5/15/96
	A154	5,813,987	9/29/98	Modell et al.	600	473	12/24/96
	A155	5,817,015	10/6/98	Adair	600	121	8/12/97
	A156	5,833,617	11/10/98	Hayashi	600	476	3/6/97
EXAMINER				DATE CONSIDERED			

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INFORMATION DISCLOSURE STATEMENT



ATTORNEY DOCKET NO.: MDS-022C1

APPLICANTS: Nordstrom *et al.*

SERIAL NO.: 10/071,932

FILING DATE: February 8, 2002

GROUP: 3737

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A157	5,840,035	11/24/98	Heusmann et al.	600	47	2/1/96
	A158	5,842,995	12/1/98	Mahadevan-Jansen et al	600	473	6/28/96
	A159	5,855,551	1/5/99	Sklandnev et al.	600	372	3/17/97
	A160	5,860,913	1/19/99	Yamaya et al.	600	127	4/29/97
	A161	5,865,726	2/2/99	Katsurada et al.	600	127	3/26/97
	A162	5,876,329	3/2/99	Harhen	600	125	9/3/97
	A163	5,920,399	7/6/99	Sandison et al.	356	418	3/18/97
	A164	5,921,926	07/13/99	Rolland et al.	600	407	12/31/97
	A165	5,929,985	07/27/99	Sandison et al	365	318	3/18/97
	A166	5,931,779	08/03/99	Arakaki et al.	600	310	6/6/97
	A167	5,938,617	08/17/99	Vo-Dinh	600	476	12/3/96
	A168	5,989,184	11/23/99	Blair et al	600	167	12/5/97
	A169	5,991,653	11/23/99	Richards-Kortum et al	660	475	6/19/96
	A170	6,069,689	05/30/00	Zeng et al	356	773	4/14/98
	A171	6,091,985	7/18/00	Alfano et al.	600	476	1/23/98
	A172	6,095,982	8/1/00	Richards-Kortum et al	600	476	12/11/97
	A173	6,104,945	8/15/00	Modell et al.	600	473	1/13/97
	A174	6,119,031	9/12/00	Crowley	600	407	9/12/00
	A175	6,146,897	11/14/00	Cohenford et al.	436	63	11/14/00
	A176	6,169,817 B1	1/2/01	Parker et al.	382	131	11/4/98
	A177	6,208,887 B1	03/27/01	Clarke et al	600	476	6/24/99
	A178	6,241,662 B1	06/5/01	Richards-Kortum et al	600	310	10/20/98
	A179	6,246,479 B1	06/12/01	Jung et al	356	419	12/23/99
	A180	6,285,639 B1	9/4/01	Maenza et al	369	47.28	4/29/98
	A181	6,377,842 B1	4/23/02	Pogue et al	600	478	8/23/99
	A182	6,385,484 B2	5/7/02	Nordstrom et al.	600	476	12/15/00

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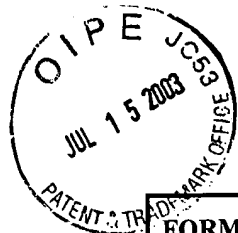
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U.S. PATENT DOCUMENTS									
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	A183	6,411,835 B1	6/25/02	Modell et al.	600	407			
	A184	6,411,838 B1	6/25/02	Nordstrom et al.	600	476			
	A185	6,421,553 B1	7/16/02	Costa et al.	600	476			
	A186	6,427,082 B1	7/30/02	Nordstrom et al.	600	476			
	A187	5,690,106	11/25/97	Bani-Hashemi et al.	128	653.1			
	A188	5,995,645	11/30/99	Soenksen et al.	382	133			
	A189	6,058,322	5/2/00	Nishikawa et al.	600	408			
	A190	6,246,471 B1	6/12/01	Jung et al.	356	73			
	A191	6,312,385 B1	11/6/01	Mo et al.	600	443			
	A192	6,317,617 B1	11/13/01	Gilhuijs et al.	600	408			
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	B1	0 135 134	3/27/85	EP				Y	
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	B3	0 335 725	10/4/89	EP				Y	
	B4	0 444 689 A2	9/4/91	EP				Y	
	B5	0 474 264	3/11/92	EP				Y	
	B6	0 641 542	3/8/95	EP				Y	
	B7	0 689 045 A1	12/27/95	EP				Y	
	B8	0 737 849 A2	10/16/96	EP				Y	
	B9	1 223 092 A	4/7/86	SU			In English	N	
	B10	WO 92/19148	11/12/92	PCT		4/29/92		Y	
	B11	WO 93/14688	8/5/93	PCT		01/24/92		Y	
	B12	WO 94/26168	11/24/94	PCT		05/11/94		Y	
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EXAMINER				DATE CONSIDERED					

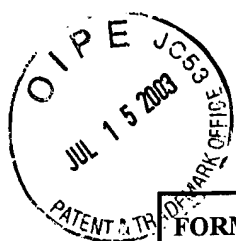


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	B14	WO 97/05473	2/13/97	PCT			08/01/95		Y
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	B16	WO 98/05253	02/12/98	PCT			08/2/96		
	B17	WO 98/24369	06/11/98	PCT			11/20/97	N	Y
	B18	WO 98/30889	2/13/97	PCT			01/13/97		Y
	B19	WO 98/41176	9/24/98	PCT			03/17/97		
	B20	WO 99/18847	4/22/99	PCT			12/14/98		Y
	B21	WO 99/20313	4/29/99	PCT			10/20/98		
	B22	WO 99/20314	4/29/99	PCT			10/20/98		
	B23	WO 99/47041	09/23/99	PCT			03/19/99		
	B24	WO 99/57507	11/11/99	PCT			4/30/99		
	B25	WO 99/57529	11/11/99	PCT			5/4/99		
	B26	WO 00/15101	3/23/00	PCT			9/10/99		
OTHER ART, JOURNAL ARTICLES, ETC. '									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C1	Agrawal et al. (1999), "Fluorescence Spectroscopy of the Cervix: Influence of Acetic Acid, Cervical Mucus, and Vaginal Medications," <u>Lasers in Surgery and Medicine</u> , 25:237-249.							
	C2	Althof et al. (1997), "A rapid and automatic image registration algorithm with subpixel accuracy," <u>IEEE Transactions on Medical Imaging</u> , 16(3):308-316.							
	C3	Anderson (1994), "Confocal Laser Microscopes See A Wider Field of Application", <u>Laser Focus World</u> , pp. 83-86.							
	C4	Aström et al. (1999), "Motion estimation in image sequences using the deformation of apparent contours," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 21(2):114-127.							
	C5	Balakrishnama et al, "Linear Discriminant Analysis – A Brief Tutorial," <u>Institute for Signal and Information Processing Department of Electrical and Computer Engineering</u> , 8 pages.							
	C6	Balas (1997), "An Imaging Colorimeter for Noncontact Tissue Color Mapping," <u>IEEE Transactions on Biomedical Engineering</u> , 44(6):468-474.							
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OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
C7	Balas (2001), "A Novel Optical Imaging Method for the Early Detection, Quantitative Grading, and Mapping of Cancerous and Precancerous Lesions of Cervix," <u>IEEE Transactions on Biomedical Engineering</u> , 48(1):96-104.		
C8	Balas et al. (1997), "A modular diffuse reflection and fluorescence emission imaging colorimeter for the in-vivo study of parameters related with the phototoxic effect in PDT," <u>SPIE</u> , 3191:50-57.		
C9	Balas et al. (1998), "In Vivo Assessment of Acetic Acid-Cervical Tissue Interaction Using Quantitative Imaging of Back-Scattered Light: Its Potential Use for the In Vivo Cervical Cancer Detection Grading and Mapping," Part of EUROPTO Conference on Optical Biopsy, Stockholm, Sweden, <u>SPIE</u> , Vol. 3568:31-37.		
C10	Balas et al. (1999), "In Vivo Detection and Staging of Epithelial Dysplasias and Malignancies Based on the Quantitative Assessment of Acetic Acid-Tissue Interaction Kinetics," <u>Journal of Photochemistry and Photobiology B: Biology</u> , 53:153-157.		
C11	Bessey et al. (1949), "The Fluorometric measurement of the nucleotides of riboflavin and their concentration in tissues," <u>J. Biol.-Chem.</u> , 180:755-769.		
C12	Bors et al. (1998), "Optical flow estimation and moving object segmentation based on median radial basis function network," <u>IEEE Transactions on Image Processing</u> , 7(5):693-702.		
C13	Bouthemy et al. (1999), "A unified approach to shot change detection and camera motion characterization," <u>IEEE Transactions on Circuits and Systems for Video Technology</u> , 9(7):1030-1044.		
C14	Braichotte et al. (1995), "Clinical Pharmacokinetic Studies of Photofrin by Fluorescence Spectroscopy in the Oral Cavity, the Esophagus, and the Bronchi," <u>Cancer</u> 75(11):2760-2778.		
C15	Brown (1990), "Chemometrics," <u>Anal. Chem.</u> , 62:84R-101R.		
C16	Camus et al. (1997), "Real-time quantized optical flow," <u>Real-Time Imaging</u> , 3:71-86.		
C17	Caplier et al. (1998), "Real-time implementation of a MRF-based motion detection algorithm," <u>Real-Time Imaging</u> , 4:41-54.		
C18	Contini et al. (1989), "Colposcopy and Computer Graphics: a New Method?" <u>Amer. J. Obstet. Gynecol.</u> , 160(3):535-538.		
C19	Craine et al. (1993), "Digital Imaging Colposcopy: basic concepts and applications," <u>Amer. J. Obstet. Gynecol.</u> , 82(5):869-873.		
C20	Craine et al. (1998), "Digital imaging colposcopy: Corrected area measurements using shape-from-shading," <u>IEEE Transactions on Medical Imaging</u> , 17(6):1003-1010.		
C21	Crisp et al. (1990), "The Computerized Digital Imaging Colposcope: Future Directions," <u>Amer. J. Obstet. Gynecol.</u> , 162(6):1491-1497.		
C22	Cronjé et al. (1997), "Effects of Dilute Acetic Acid on the Cervical Smear," <u>Acta. Cytol.</u> , 41:1091-1094.		

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OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C23	Davidovits et al. (1971), "Scanning Laser Microscope for Biological Investigations", <u>Applied Optics</u> , 10(7):1615-1619.
	C24	Dickman et al. (2001), "Identification of Cervical Neoplasia Using a Simulation of Human Vision," <u>Journal of Lower Genital Tract Disease</u> , 5(3):144-152.
	C25	Drezek et al. (1999), "Light scattering from cells: finite-difference time-domain simulations and goniometric measurements," <u>Applied Optics</u> 38(16):3651-3661.
	C26	Drezek et al. (2000), "Laser Scanning Confocal Microscopy of Cervical Tissue Before and After Application of Acetic Acid," <u>Am. J. Obstet. Gynecol.</u> , 182(5):1135-1139.
	C27	Dumontier et al. (1999), "Real-time DSP implementation for MRF-based video motion detection," <u>IEEE Transactions on Image Processing</u> , 8(10):1341-1347.
	C28	Earnshaw et al. (1996), "The Performance of Camera Translation Direction Estimators from Optical Flow: Analysis, Comparison, and Theoretical Limits," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 18(9):927-932.
	C29	Edebiri, A.A. (1990), "The relative significance of colposcopic discriptive appearances in the dianosis of cervical intraepithelial neoplasia," <u>Int. J. Gynecol. Obstet.</u> , 33:23-29.
	C30	Eisner et al. (1987), "Use of Cross-Correlation Function to Detect Patient Motion During Spectral Imaging," <u>Journal of Nuclear Medicine</u> , 28(1):97-101.
	C31	Ferris et al. (1998), "Colposcopy Quality Control: Establishing Colposcopy Criterion Standards for the NCI ALTS Trial Using Cervigrams," <u>J. Lower Genital Tract Disease</u> , 2(4):195-203.
	C32	Fleet et al. (1995), "Recursive Filters for Optical Flow," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 17(1):61-67.
	C33	Gao et al. (1998), "A work minimization approach to image morphing," <u>The Visual Computer</u> , 14:390-400.
	C34	Gauch (1999), "Image Segmentation and Analysis Via Multiscale Gradient Watershed Hierarchies," <u>IEEE Transactions on Image Processing</u> , 8(1):69-79.
	C35	Hall et al. (1992), "Near-Infrared Spectrophotometry: A New Dimension in Clinical Chemistry", <u>Clin. Chem.</u> 38(9):1623-1631.
	C36	Haralick (1984), "Digital Step Edges from Zero Crossing of Second Directional Derivatives," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 6(1):58-68.
	C37	Haris et al. (1998), "Hybrid Image Segmentation Using Watersheds and Fast Region Merging," <u>IEEE Transactions on Image Processing</u> , 7(12):1684-1699.
	C38	Helmerhorst et al. (1987), "The accuracy of colposcopically directed biopsy in diagnosis of CIN 2/3." <u>Eur. J. Obstet. Gyn. Reprod. Biol.</u> , 24, 221-229.
EXAMINER		DATE CONSIDERED

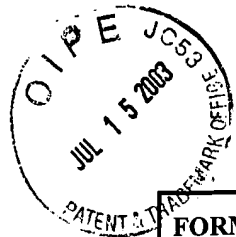


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OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	C39	Horn et al. (1981), "Determining Optical Flow," <u>Artificial Intelligence</u> , 17(1-3):185-203.	
	C40	Horn et al. (1993), "Determining Optical Flow": a retrospective, <u>Artificial Intelligence</u> , 59:81-87.	
	C41	Huang et al. (1979), "A fast two-dimensional median filtering algorithm," <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , 27(1):13-18.	
	C42	Jackway (1996), "Gradient Watersheds in Morphological Scale-Space," <u>IEEE Transactions on Image Processing</u> , 5(6):913-921.	
	C43	Ji et al. (2000), "Texture Analysis for Classification of Cervix Lesions," <u>IEEE Transactions on Medical Imaging</u> , 19(11):1144-1149.	
	C44	Kierkegaard et al. (1995), "Association between Colposcopic Findings and Histology in Cervical Lesions: The Significance of the Size of the Lesion" <u>Gynecologic Oncology</u> , 57:66-71.	
	C45	Koester (1980), "Scanning Mirror Microscope with Optical Sectioning Characteristics: Applications in Ophthalmology", <u>Applied Optics</u> , 19(11):1749-1757.	
	C46	Koester, "Comparison of Optical Sectioning Methods: The Scanning Slit Confocal Microscope", <u>Confocal Microscope Handbook</u> , pp. 189-194.	
	C47	Kumar et al. (1996), "Optical Flow: A Curve Evolution Approach," <u>IEEE Transactions on Image Processing</u> , 5(4):598-610.	
	C48	Linde et al. (1980), "An algorithm for vector quantizer design," <u>IEEE Transactions on Communications</u> , 28(1):84-95.	
	C49	MacAulay et al. (2002), "Variation of fluorescence spectroscopy during the menstrual cycle," <u>Optics Express</u> , 10(12):493-504.	
	C50	MacLean A.B. (1999), "What is Acetowhite Epithelium," <u>Abstract Book; 10th World Congress of Cervical Pathology and Colposcopy</u> , November 7-11, Buenos Aires, Argentina 41.	
	C51	Marzetta et al. (1999), "A surprising radon transform result and its application to motion detection," <u>IEEE Transactions on Image Processing</u> , 8(8):1039-1049.	
	C52	Miike et al. (1999), "Motion enhancement for preprocessing of optical flow and scientific visualization," <u>Pattern Recognition Letters</u> , 20:451-461.	
	C53	Mikhail et al. (1995), "Computerized colposcopy and conservative management of cervical intraepithelial neoplasia in pregnancy," <u>Acta Obstet. Gynecol. Scand.</u> , 74:376-378.	
	C54	Milanfar (1999), "Two-dimensional matched filtering for motion estimation," <u>IEEE Transactions on Image Processing</u> , 8(3):438-444.	
	C55	Mitchell et al. (1998), "Colposcopy for the diagnosis of squamous intraepithelial lesions: a meta-analysis," <u>Obstet. Gynecol.</u> , 91(4):626-631.	
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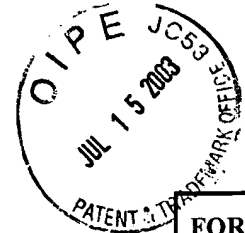
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EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C56	Mycek et al. (1998), "Colonic polyp differentiation using time-resolved autofluorescence spectroscopy," <u>Gastrointestinal Endoscopy</u> , 48(4):390-394.
	C57	Nanda et al. (2000), "Accuracy of the Papanicolaou test in screening for and follow-up of cervical cytologic abnormalities: a systematic review," <u>Ann Intern Med.</u> , 132(10):810-819.
	C58	Nesi et al. (1998), "RETIMAC REalTime Motion Analysis Chip," <u>IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing</u> , 45(3):361-375.
	C59	Noumeir et al. (1996), "Detection of Motion During Tomographic Acquisition by an Optical Flow Algorithm," <u>Computers and Biomedical Research</u> , 29(1):1-15.
	C60	O'Sullivan et al. (1994), "Interobserver variation in the diagnosis and grading of dyskaryosis in cervical smears: specialist cytopathologists compared with non-specialists," <u>J. Clin. Pathol.</u> , 47(6):515-518.
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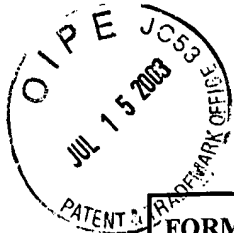
FORM PTO - 1449		ATTORNEY DOCKET NO.: MDS-022C1
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		SERIAL NO.: 10/071,932
		FILING DATE: February 8, 2002
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